#### WIRING DIAGRAM VEIRS MILL ROAD (MD 586) IS ASSUMED TO RUN IN THE EAST/WEST DIRECTION. R,S,X,Y,d,e -J.K.L.e-F.G.R.S.X.Y.d.e. G.R.S.X.Y.d.e — E∙J•K•L•U•a•e B.E.J.K.L.U.a.e - B.C.D.E.J.K.L.U.a.e - B,C,E,J,K,L,U,d,e B.C.E.J.K.L.P.U.V.a.b.e A.G.R.S.W.X.Y.Z.d.e -A.B.C.E.G.H.J.K.L.M.N.O.P.Q.R. S.T.U.V.W.X.Y.Z.a.b.c.d.e WIRING KEY a > CAMERA W/ 500' LEAD-IN TO CONTROLLER CONTROLLER INFORMATION 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) CAMERA W/300' LEAD-IN THE EXISTING CONTROLLER AT THE INTERSECTION IS A NEMA TO CONTROLLER EIGHT-PHASE, FULLY ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A BASE-MOUNTED CABINET. STRANDED BARE COPPER GROUND / WIRE (#6 AWG) SEE GENERAL NOTES ON SHEET FOR INSTRUCTIONS CONCERNING DZ > CAMERA DETECTOR ZONE NAVIGATOR CENTRAL CONTROL UNIT. CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) PROJECT CONTACTS + 3/4" X 10 FEET GROUND ROD CONTACT PERSONS FOR CONTACTS FOR OFFICE OF DISTRICT 3 ARE AS FOLLOWS: TRAFFIC AND SAFETY: MR. JEFFREY WENTZ MR. RICHARD DAFF, SR. ASSISTANT DISTRICT ENGINEER CHEIF. TRAFFIC OPERATIONS DIVISION TRAFFIC - 301-513-7318 410-787-7630 MR. WAYNE MOWDY MR. ED RODENHIZER 5 CONDUCTOR ELECTRICAL CHIEF, SHA SIGNAL SHOP ASSISTANT DISTRICT ENGINEER CABLE (NO. 14 AWG) MAINTENANCE - 301-513-7304 410-787-7652 MR. AUGIE REBISH ROBERT SNYDER UTILITY ENGINEER CONSTRUCTION INSPECTION

### PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES REPLACEMENT OF THE EXISTING TRAFFIC SIGNAL HEADS WITH NEW LED SIGNAL HEADS, THE INSTALLATION OF ACCESIBLE PEDESTRIAN SIGNALS AND VIDEO DETECTION EQUIPMENT AT THE INTERSECTION OF MD 586 (VEIRS MILL ROAD) AT PARKLAND DRIVE AND GAYNOR ROAD IN MONTGOMERY COUNTY. THE CLEARANCE INTERVAL ALONG MD 586 WILL ALSO BE INCREASED.

MD 586 RUNS IN AN EAST-WEST DIRECTION.

## INTERSECTION OPERATION

### NORMAL OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX PHASE, FULL-TRAFFIC ACTUATED MODE, WITH THE MD 586 APPROACHES RUNNING CONCURRENTLY. THE PARKLAND DRIVE/GAYNOR ROAD APPROACHES HAVE SPLIT PHASING.

THE EASTBOUND (MD 586), NORTHBOUND (GAYNOR ROAD) AND SOUTHBOUND (PARKLAND DRIVE) MOVEMENTS AT THIS INTERSECTION HAVE PROTECTED LEFT TURN PHASES. THE WESTBOUND (MD 586) APPROACH HAS A PERMISSIVE LEFT TURN.

A SIX SECOND CLEARANCE INTERVAL (4 SEC. YELLOW, 2 SEC. RED) IS TO BE PROVIDED FOR THE MD 586 (VEIRS MILL ROAD) EAST AND WEST APPROACHES.

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON MOVEMENTS TO CROSS THE NORTH, SOUTH AND WEST LEGS OF THE INTERSECTION ARE TO BE PROVIDED.

410-545-0390 CONTACT FOR MONTGOMERY COUNTY:

OF PUBLIC WORKS 240-777-8795

MR. KAMAL HAMUD MONTGOMERY COUNTY DEPARTMENT

## EQUIPMENT LIST "A"

UTILITIES - 301-513-7350

EQUIPMENT TO BE SUPPLIED BY THE SHA.

	'	
ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT
9571	6 SF	SHEET ALUMINUM MAST ARM/POLEMOUNTED SIGNS
	6 EA	R10-4(1) MOD "PUSH BUTTON TO CROSS" (W/INSTRUCTIONS) (9" X 15")

# PHASING SEQUENCE CHART

																	:	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		RYG	RYG	(R) (G)	(R) Y) G	R Y G	\$ B S	R Y G G	RYG	R Y G G	RYG &	R Y Y G G	<b>集田</b>	<b>#</b> 88				

PHASE 2 AND 6	∢R	∢R	G	G	G	G	G	R	R	R	R	R	R	WALK	WALK	WALK	WALK	DW	DW	•
PED CLEARANCE	∢R	∢R	G	G	G	G	G	R	R	R	R	R	R	FL⁄DW	FL⁄DW	FL⁄DW	FL⁄DW	DW	DW	
2 AND 6 CHANGE	∢R	∢R	Υ	Υ	Υ	Υ	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	•
THE CONTROLLER MAY SKIP TO PHASES 1 & 6																				
PHASE 1 & 6	∢G	₫G	G	G	R	R	R	R	R	R	R	R	R⁄G▶	DW	WALK	WALK	DW	DW	DW	<b>*</b>
1 & 6 CHANGE	₫Υ	∢Υ	G	G	R	R	R	R	R	R	R	R	R⁄Y▶	DW	WALK	WALK	DW	DW	DW	•
PHASE 3	∢R	∢R	R	R	R	R	R	<b>∢</b> G∕G	<b>∢</b> G∕G	G	R	R	R	DW	DW	DW	DW	DW-	DW	
PHASE 3 CHANGE	∢R	∢R	R	R	R	R	R	Y	Υ	Υ	R	R	R	DW	DW	DW	DW	DW	DW	1
PHASE 4	<b>4</b> R	∢R	R	R	R	R	R	R	R	R	<b>∢</b> G∕G	<b>∢</b> G∕G	G	DW	DW	DW	DW	DW	DW	Π.
PHASE 4 CHANGE	.∢R	∢R	R	R	R	R	R	R	R	R	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	<b>→</b>
PHASE 4 ALT	∢R	∢R	R	R	R	R	R	R	R	R	<b>∢</b> G∕G	∢G⁄G	G	DW	DW	DW	DW	WALK	WALK	• []
PED CLEARANCE	∢R	I∢R	R	R	R	R	R	R	R	R	∢G⁄G	∢G⁄G	G	DW	DW	DW	DW	FL⁄DW	FL⁄DW	
PHASE 4 ALT CHANGE	₫R	∢R	R	R	R	·R	R	R	R	R	Υ	Υ	Υ	DW	DW	DW	DW	DW	DW	1-1 ♦ ▼
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	+ +

#### EMERGENCY VEHICLE PREEMPTION

39 EA

1 EA

6 EA

6 EA

8003

8007

8010

• .																				'
EMERGENCY VEHICLE PREEMPTION PHASE 3	∢R	∢R	R	R	R	R	R	4G∕G	∢G⁄G	G	R	R	R	DW	DW	DW	DW	DW	DW	_ <b>A</b> _
PREEMPTION CLEARANCE	∢R	∢R	R	R	R	R	R	Υ	Υ	Y	R	R	R	DW	DW.	DW	DW	DW	DW	1
PHASE 4 NORMAL OPERATION	∢R	∢R	R	R	R	R	R	R	R	R	∢G⁄G	∢G⁄G	G	DW	DW	DW	DW	DW	DW	

## EQUIPMENT LIST "B"

12 INCH R-Y-G L.E.D. SIGNAL HEAD

2 EA RED ARROW SECTION

3 EA YELLOW ARROW SECTION

7 EA GREEN ARROW SECTION

2 WIRE CENTRAL CONTROL UNIT

AUDIBLE/TACTILE PEDESTRIAN

PUSHBUTTON STATION & SIGN

CROSSING STREET)

(5"X7" WITH BRAILLE DENOTING

8 INCH R-Y-G L.E.D. SIGNAL HEAD

9 EA RED, YELLOW, GREEN BALL SECTION

## EQUIPMENT LIST "B" CONT'D

EQUIPMEN	T TO BE FUF	RNISHED AND/OR INSTALLED BY THE CONTRACTOR:	ITEM NO.	QUANTITY	DESCRIPTION
ITEM NO.	QUANTITY	DESCRIPTION	8011	6 EA	BREAKAWAY PEDESTAL POLE
1001	1 EA	MAINTENANCE OF TRAFFIC			5 EA 5' BREAKAWAY PEDESTAL POLE 1 EA 10' BREAKAWAY PEDESTAL POLE
2001	6 CY	CLASS 2 EXCAVATION	8014	6 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
2002	3 CY	TEST PIT EXCAVATION	8017	1 EA	REMOVE AND DISPOSE MATERIAL AND
5001	380 LF	5" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	0011	IEA	EQUIPMENT PER ASSIGNMENT
5002	160 LF	5" HEAT APPLIED YELLOW PERMANENT PREFORMED	8026	`120 LF	SCHEDULE 80 RIGID PVC CONDUIT 3 IN - TRENCHED
		THERMOPLASTIC PAVEMENT MARKINGS	8027	60 SF	DETECTABLE WARNING SURFACE
5003	510 LF	12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	8033	900 LF	STRANDED BARE COPPER GROUND WIRE NO. 6 AWG
5004	60 LF	24" HEAT APPLIED WHITE PERMANENT PREFORMED	8044	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
	4770	THERMOPLASTIC PAVEMENT MARKINGS	8047	4 EA	VIDEO DETECTION CAMERA AND CABLE (UP TO 500 FT)
5005	1350 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS	8058	1035 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO.14 AWG
5006	11 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT	8060	900 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO.14 AWG
	•	MARKING LETTERS AND ARROWS	8061	2057 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO.14 AWG
5008	4 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS			TOD NO:AT925-25 SHA NO: MO281A5D
6001	141 LF	DEPRESSED CURB AND GUTTER			MD 586 @ PARKLAI
6002	1033 SF	4" CONCRETE SIDEWALK		`	STATE OF MARYLAND

A5D/B5D LAND DRIVE



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION MD 955 (Veirs Mill Rd.) @ Parkland Dr./Gaynor Rd.

INSTALLATION OF APS AND VIDEO DETECTION

# GENERAL INFORMATION SHEET

SCALE NOT TO SCALEVERTISED DATES-23-07 CONTRACT NO. AT9255185

DESIGNED BY H. DONG COUNTY MONTGOMERY DRAWN BY \_\_\_\_ W. HENRY LOGMILE 15058602.85 CHECKED BY TIMS NO. F.A.P. NO. TOD NO.

**Edwards** AND Kelcey

5523 Research Park Drive Suite 110 Baltimore, Maryland 21228 410-747-3420

SHEET NO. 2 OF 2 TS NO. 2708 DRAWING TS - 1 OF 1